

ACT Profile Report - State

Graduating Class 2012
Michigan



ACT, INC. -- CONFIDENTIAL

Table of Contents

Section I: Executive Summary	Page 5
Percent of Your Students Ready for College-Level Coursework	
Five Year Trends—Percent of Students Meeting College Readiness Benchmarks	
Five Year Trends—Average ACT Scores	
Five Year Trends—Average ACT Scores by Level of Preparation	
Five Year Trends—Percent and Average Composite Score by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
Section II: Academic Achievement	Page 11
ACT Score Distributions, Cumulative Percentages, Averages, and Quartile Values	
Average ACT Composite Scores for Race/Ethnicity by Level of Preparation	
Average ACT Scores by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
Average ACT Scores by Gender	
Percent of Students Meeting College Readiness Benchmark Scores by Gender	
College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum	
College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum	
Section III: College Readiness & Impact of Course Rigor	Page 17
Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity	
Average ACT Scores and Average ACT Score Changes by Common Course Patterns	
College Readiness Percents by Common Course Patterns	
Section IV: Career and Educational Aspirations	Page 25
Distribution of Planned Educational Majors for All Students by College Plans	
Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations	
Students' Score Report Preferences at Time of Testing	
Section V: Optional Writing Test Results	Page 29
Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing	

This report provides information about the performance of your 2012 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2012 and tested under standard time conditions.

This report focuses on:

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

The ACT is a curriculum-based measure of college readiness. ACT components include:

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

The ACT:

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at www.act.org/standard/infoserv.html.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

21% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT: 114,727 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

MAKING CORE CURRICULUM A PRIORITY: Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 77% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.2 reports 3% of the cohort took less than three years of math courses. Of these students, 9% were college ready. 18% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 10% of these students were college ready. In comparison, 45% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 7% of the cohort took less than three years of natural science courses. 15% of these students were college ready. In comparison, 28% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 55% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at www.act.org/standard.

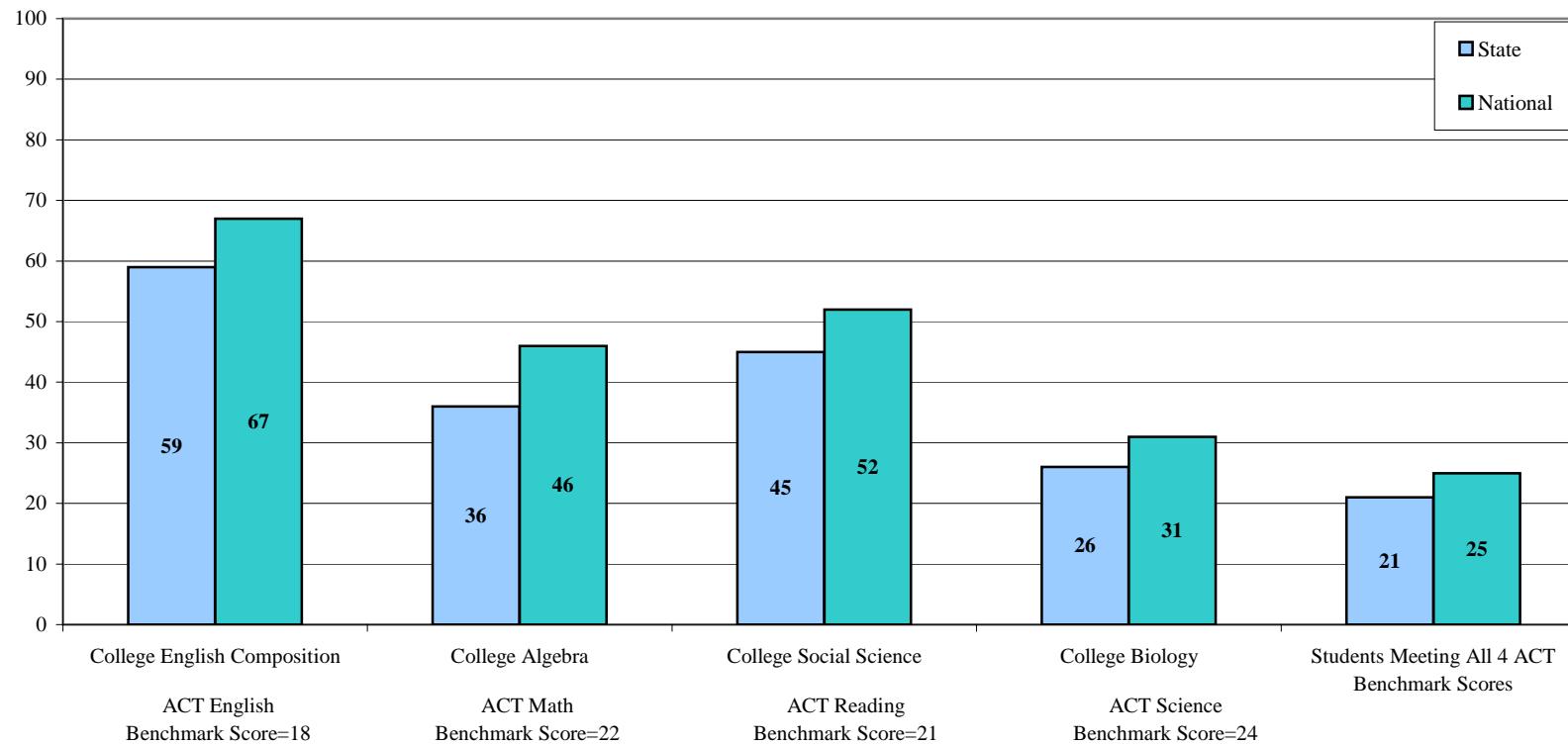
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS: Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 517-327-5919.

Section I

Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Figure 1.1. Percent of Your Students Ready for College-Level Coursework

A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

Table 1.1. Five Year Trends—Percent of Students Meeting College Readiness Benchmarks

Year	Number of Students Tested		Percent Meeting Benchmarks									
	State National		English State National		Mathematics State National		Reading State National		Science State National		Meeting All Four State National	
2008	123,918	1,421,941	55	68	31	43	41	53	23	28	17	22
2009	121,982	1,480,469	54	67	31	42	40	53	24	28	18	23
2010	120,930	1,568,835	56	66	33	43	40	52	25	29	19	24
2011	116,823	1,623,112	58	66	35	45	44	52	26	30	20	25
2012	114,727	1,666,017	59	67	36	46	45	52	26	31	21	25

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
	State National		English State National		Mathematics State National		Reading State National		Science State National		Composite State National	
2008	123,918	1,421,941	18.7	20.6	19.5	21.0	19.8	21.4	19.9	20.8	19.6	21.1
2009	121,982	1,480,469	18.6	20.6	19.6	21.0	19.6	21.4	20.1	20.9	19.6	21.1
2010	120,930	1,568,835	18.9	20.5	19.7	21.0	19.7	21.3	19.9	20.9	19.7	21.0
2011	116,823	1,623,112	19.3	20.6	19.9	21.1	20.1	21.3	20.3	20.9	20.0	21.1
2012	114,727	1,666,017	19.3	20.5	20.1	21.1	20.0	21.3	20.4	20.9	20.1	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested		Average ACT Scores									
	State National		English		Mathematics		Reading		Science		Composite	
2008	1,421,941		20.6		21.0		21.4		20.8		21.1	
2009	1,480,469		20.6		21.0		21.4		20.9		21.1	
2010	1,568,835		20.5		21.0		21.3		20.9		21.0	
2011	1,623,112		20.6		21.1		21.3		20.9		21.1	
2012	1,666,017		20.5		21.1		21.3		20.9		21.1	

Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation

Year	Number of Students Tested		Percent ²		English		Mathematics		Reading		Science		Composite	
	Core or More ¹	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2008	60,338	52,434	49	42	20.5	16.7	21.0	17.8	21.4	18.1	21.4	18.4	21.2	17.9
2009	66,446	49,183	54	40	20.6	16.4	21.2	17.8	21.4	17.8	21.5	18.5	21.3	17.8
2010	70,256	44,258	58	37	20.6	16.7	21.2	17.9	21.2	17.9	21.4	18.1	21.2	17.8
2011	88,122	21,346	75	18	20.1	16.7	20.6	18.0	20.8	18.1	21.0	18.3	20.8	17.9
2012	88,554	19,416	77	17	20.1	16.7	20.7	18.1	20.7	17.9	21.0	18.5	20.7	17.9

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

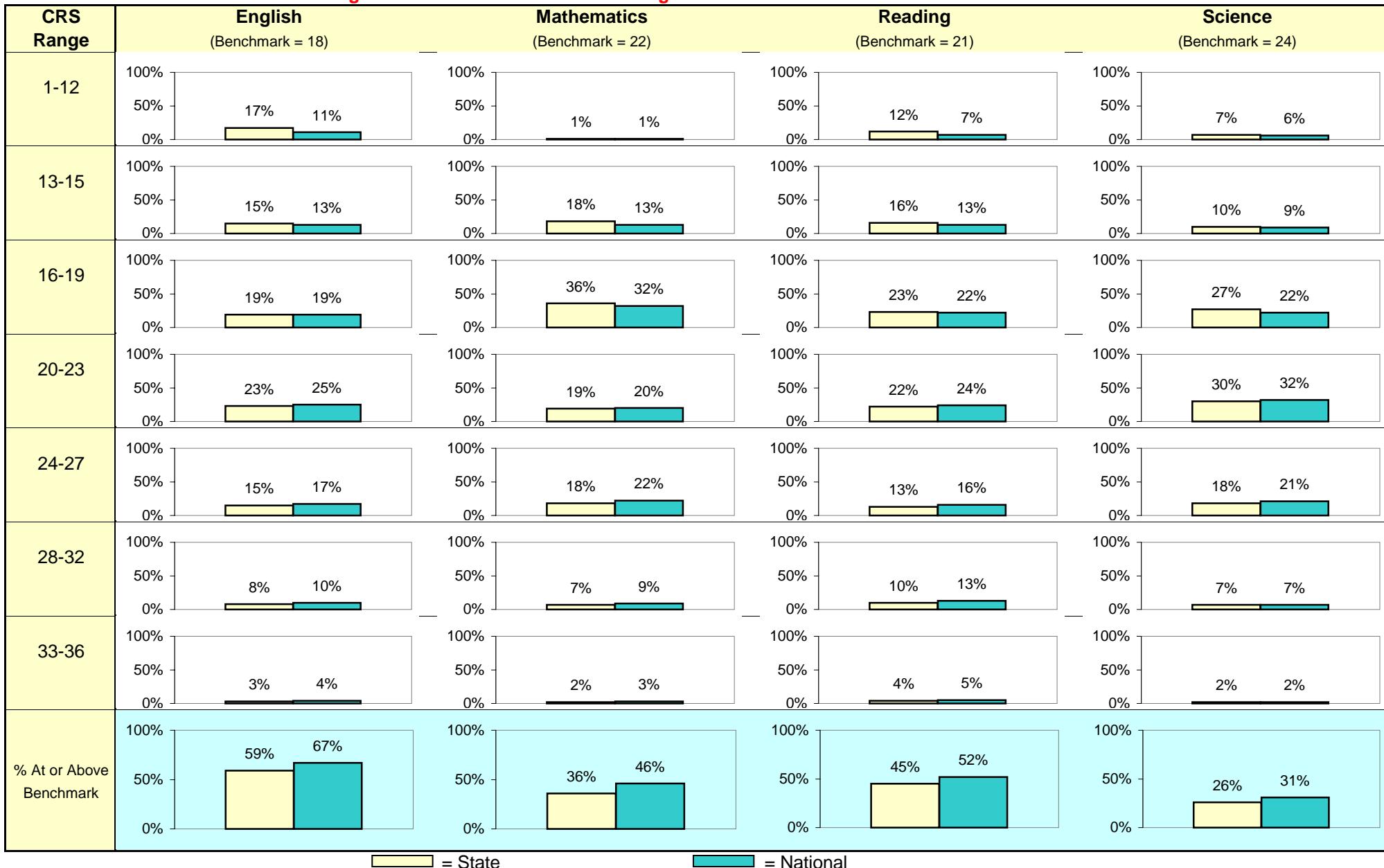
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity¹

	2008			2009			2010			2011			2012		
	N	%	Avg												
All Students	123,918	100	19.6	121,982	100	19.6	120,930	100	19.7	116,823	100	20.0	114,727	100	20.1
Black/African American	16,952	14	15.8	17,430	14	15.6	17,793	15	15.8	16,685	14	15.9	16,048	14	16.0
American Indian/Alaska Native	1,068	1	17.8	1,033	1	17.8	1,024	1	17.8	1,008	1	18.0	731	1	17.7
White	82,209	66	20.4	81,436	67	20.6	80,204	66	20.7	77,846	67	21.1	75,949	66	21.1
Hispanic/Latino	4,065	3	17.6	4,203	3	17.5	4,384	4	17.7	4,684	4	18.2	6,471	6	18.2
Asian	2,700	2	22.5	2,690	2	22.8	2,847	2	23.1	2,891	2	23.3	3,012	3	23.1
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	16	0	20.0	179	0	19.4
Two or more races	2,729	2	18.9	3,023	2	18.8	3,860	3	18.7	3,986	3	19.2	4,117	4	19.5
Prefer not to respond/No response	14,195	11	19.5	12,167	10	18.8	10,818	9	18.8	9,707	8	19.1	8,220	7	19.4

¹Refer to the section header on page 5 for a description of race/ethnicity changes.

Table 1.6. Percent of Students in College Readiness Standards Score Ranges



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Section II

Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 114,727

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	225	100	358	100	689	100	334	100	45	100	36
35	1,239	100	476	100	353	99	522	100	269	100	35
34	1,204	99	986	99	1,311	99	119	99	503	100	34
33	1,240	98	859	98	1,808	98	792	99	794	99	33
32	1,369	97	865	98	967	96	987	98	1,132	99	32
31	1,551	95	908	97	2,438	96	1,320	98	1,423	98	31
30	1,748	94	1,703	96	2,525	93	1,547	96	1,884	96	30
29	1,853	93	1,520	95	2,654	91	1,737	95	2,263	95	29
28	2,138	91	2,639	93	2,992	89	2,215	94	2,886	93	28
27	3,448	89	3,911	91	3,181	86	3,401	92	3,473	90	27
26	3,837	86	4,337	88	3,497	84	4,575	89	4,167	87	26
25	4,282	83	5,482	84	3,645	80	4,722	85	4,933	84	25
24	5,358	79	6,831	79	4,575	77	7,989	81	5,577	79	24
23	4,993	74	5,404	73	6,881	73	8,540	74	6,408	74	23
22	6,530	70	5,493	68	5,202	67	6,220	66	6,795	69	22
21	7,788	64	4,771	64	8,376	63	9,604	61	7,497	63	21
20	7,614	57	5,891	59	4,939	55	10,142	52	7,651	56	20
19	5,620	51	6,355	54	8,348	51	9,146	44	7,959	50	19
18	5,386	46	7,130	49	5,665	44	9,071	36	8,190	43	18
17	5,151	41	10,183	43	7,991	39	4,697	28	7,951	36	17
16	5,645	37	17,137	34	4,542	32	7,726	24	7,599	29	16
15	7,513	32	10,969	19	7,472	28	4,319	17	7,170	22	15
14	5,235	25	6,805	9	7,389	22	3,965	13	6,384	16	14
13	4,059	21	2,497	3	3,976	15	3,541	10	5,579	10	13
12	4,128	17	848	1	6,210	12	2,781	7	3,939	5	12
11	3,918	14	210	1	4,072	6	2,913	4	1,702	2	11
10	4,480	10	78	1	1,362	3	1,090	2	372	1	10
9	2,524	6	36	1	804	1	422	1	110	1	9
8	2,940	4	24	1	449	1	165	1	47	1	8
7	1,070	1	0	1	202	1	29	1	11	1	7
6	402	1	12	1	103	1	53	1	6	1	6
5	152	1	0	1	67	1	20	1	4	1	5
4	54	1	6	1	4	1	5	1	2	1	4
3	17	1	0	1	19	1	10	1	2	1	3
2	10	1	0	1	14	1	0	1	0	1	2
1	6	1	3	1	5	1	8	1	0	1	1
Avg (SD)	19.3 (6.6)		20.1 (5.1)		20.0 (6.2)		20.4 (5.1)		20.1 (5.3)		Avg (SD)

¹CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subtest Score Averages

ACT Scale Score	English				Reading				Mathematics				ACT Scale Score		
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	3,059	100	920	100	2,417	100	2,821	100	3,033	100	712	100	884	100	18
17	2,985	97	1,791	99	4,043	98	4,438	98	3,365	97	1,002	99	938	99	17
16	5,271	95	4,305	98	5,206	94	5,713	94	3,270	94	2,221	99	3,044	98	16
15	3,326	90	6,371	94	5,033	90	2,049	89	6,821	92	3,195	97	3,824	96	15
14	6,712	87	6,055	88	6,848	85	6,975	87	5,553	86	7,800	94	7,606	92	14
13	4,072	81	9,082	83	7,251	79	7,645	81	7,101	81	11,218	87	10,759	86	13
12	8,006	78	10,266	75	8,611	73	8,026	74	11,220	75	8,312	77	9,566	76	12
11	8,943	71	11,544	66	8,365	66	8,372	67	8,091	65	16,926	70	10,188	68	11
10	13,142	63	10,892	56	14,924	58	13,929	60	11,499	58	14,178	55	19,886	59	10
9	9,665	52	12,463	47	10,383	45	8,779	48	6,811	48	22,667	43	13,794	42	9
8	9,734	43	10,506	36	15,010	36	9,385	40	16,456	42	11,900	23	12,670	30	8
7	12,258	35	9,212	27	8,912	23	7,758	32	13,439	27	7,515	13	9,289	19	7
6	8,706	24	5,081	19	10,291	15	12,659	25	10,190	16	1,461	6	2,293	11	6
5	7,039	16	6,508	14	4,019	6	6,508	14	5,731	7	3,589	5	5,387	9	5
4	5,537	10	6,328	8	1,928	3	6,866	8	1,440	2	372	2	699	4	4
3	4,534	5	2,710	3	1,011	1	1,843	2	279	1	1,282	1	2,572	3	3
2	1,460	2	620	1	351	1	916	1	362	1	69	1	1,023	1	2
1	278	1	73	1	124	1	45	1	66	1	308	1	305	1	1
Avg (SD)	9.5 (3.9)		9.9 (3.6)		10.2 (3.5)		9.8 (3.9)		10.1 (3.5)		10.3 (2.8)		10.1 (3.1)		Avg (SD)

¹CP is the cumulative percent of students at or below a score point.

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	24	24	24	24	24
Q2 (50th Percentile)	19	19	19	20	20
Q1 (25th Percentile)	14	16	15	17	16

Table 2.4. Average ACT Composite Scores for Race/Ethnicity¹ by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ²	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	114,727	77	20.7	17.9
	Black/African American	16,048	71	16.6	14.7
	American Indian/Alaska Native	731	72	18.2	16.6
	White	75,949	80	21.6	19.0
	Hispanic/Latino	6,471	73	18.8	16.7
	Asian	3,012	80	24.2	18.9
	Native Hawaiian/Other Pac. Isl.	179	73	20.1	18.1
	Two or more races	4,117	76	20.0	17.7
	Prefer not/No Response	8,220	70	20.3	17.3
National	All Students	1,666,017	76	21.8	19.1
	Black/African American	222,237	72	17.5	15.9
	American Indian/Alaska Native	13,523	66	19.3	16.9
	White	983,148	77	23.0	20.3
	Hispanic/Latino	234,456	73	19.5	17.4
	Asian	68,080	81	24.1	21.8
	Native Hawaiian/Other Pac. Isl.	4,545	74	20.4	18.3
	Two or more races	55,500	76	22.0	19.6
	Prefer not/No Response	84,528	68	22.5	19.2

¹Refer to the section header on page 11 for a description of race/ethnicity changes.²"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.**Table 2.5. Average ACT Scores by Race/Ethnicity¹**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	19.3	20.1	20.0	20.4	20.1
	Black/African American	14.6	16.3	15.8	16.7	16.0
	American Indian/Alaska Native	16.2	17.8	17.8	18.4	17.7
	White	20.5	20.9	21.1	21.3	21.1
	Hispanic/Latino	17.0	18.4	18.1	18.8	18.2
	Asian	22.1	24.7	21.9	23.1	23.1
	Native Hawaiian/Other Pac. Isl.	18.6	19.4	19.2	19.9	19.4
	Two or more races	18.7	19.3	19.6	19.9	19.5
	Prefer not/No Response	18.4	19.5	19.4	19.6	19.4
National	All Students	20.5	21.1	21.3	20.9	21.1
	Black/African American	16.0	17.3	17.2	17.2	17.0
	American Indian/Alaska Native	17.1	18.5	18.7	18.7	18.4
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.7	19.4	19.0	18.9	18.9
	Asian	22.7	25.2	22.9	23.2	23.6
	Native Hawaiian/Other Pac. Isl.	18.9	20.4	19.8	19.7	19.8
	Two or more races	21.0	21.1	21.8	21.2	21.4
	Prefer not/No Response	20.7	21.3	21.5	20.9	21.3

¹Refer to the section header on page 11 for a description of race/ethnicity changes.

Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	3,908	3	2,679	2	4,161	4	1,767	2
	28 to 32	8,659	8	7,635	7	11,576	10	7,806	7
	24 to 27	16,925	15	20,561	18	14,898	13	20,687	18
	20 to 23	26,925	23	21,559	19	25,398	22	34,506	30
	16 to 19	21,802	19	40,805	36	26,546	23	30,640	27
	13 to 15	16,807	15	20,271	18	18,837	16	11,825	10
	01 to 12	19,701	17	1,217	1	13,311	12	7,496	7
National	33 to 36	74,039	4	50,719	3	81,737	5	30,082	2
	28 to 32	167,405	10	149,540	9	223,134	13	123,485	7
	24 to 27	291,143	17	369,818	22	262,453	16	355,144	21
	20 to 23	414,094	25	332,787	20	399,794	24	532,341	32
	16 to 19	318,585	19	538,042	32	366,975	22	373,233	22
	13 to 15	210,405	13	216,778	13	220,083	13	158,083	9
	01 to 12	190,346	11	8,333	1	111,841	7	93,649	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	Average ACT Scores						
		N	Percent	English	Mathematics	Reading	Science	Composite
State	Males	55,967	49	18.8	20.5	19.7	20.7	20.0
	Females	57,648	50	19.8	19.7	20.3	20.2	20.1
	Missing	1,112	1	16.9	18.4	18.0	18.7	18.1
National	Males	761,554	46	20.2	21.7	21.2	21.4	21.2
	Females	900,625	54	20.9	20.6	21.4	20.5	21.0
	Missing	3,838	0	16.1	17.8	17.6	17.8	17.5

Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students					Meet All Four
		English	Mathematics	Reading	Science	All Four	
State	Males	56	39	43	29	23	
	Females	62	34	47	24	19	
National	Males	64	50	51	35	29	
	Females	69	42	53	27	22	

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ⁴	Avg
State	Core or More ²	88,554	64	20.1	41	20.7	49	20.7	30	21.0	24	20.7
	Less than Core	19,416	42	16.7	21	18.1	31	17.9	15	18.5	10	17.9
	Missing ³	6,757	36	15.7	18	17.7	26	17.1	13	17.8	9	17.2
National	Core or More	1,259,744	72	21.3	51	21.8	57	22.0	35	21.6	29	21.8
	Less than Core	355,849	51	18.3	29	19.1	38	19.4	19	19.1	14	19.1
	Missing	50,424	38	16.2	22	18.1	27	17.6	14	17.8	10	17.6

¹ "Curriculum Taken" reflects overall high school curriculum in this table.² "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.³ Zero years or no coursework information reported in one or more content areas.⁴ Composite CRB% results reflect students who meet all four subject-area benchmarks.**Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum**

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More ²	98,681	62	19.8	104,833	38	20.3	102,445	47	20.4	100,343	28	20.7
	Less than Core	10,348	36	15.8	3,964	9	16.4	6,203	22	16.5	8,112	15	18.5
	Missing ³	5,698	37	15.9	5,930	19	17.8	6,079	27	17.2	6,272	13	17.9
National	Core or More	1,558,562	68	20.8	1,550,768	48	21.4	1,471,658	54	21.6	1,425,217	33	21.4
	Less than Core	64,748	41	16.5	69,741	8	16.6	149,266	40	19.7	194,661	13	18.4
	Missing	42,707	40	16.5	45,508	22	18.2	45,093	29	17.8	46,139	14	17.9

¹ "Curriculum Taken" reflects content-specific curriculum in this table.² "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

³ Zero years or no coursework information reported in the specified content area.

Section III

College Readiness and the Impact of Course Rigor

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

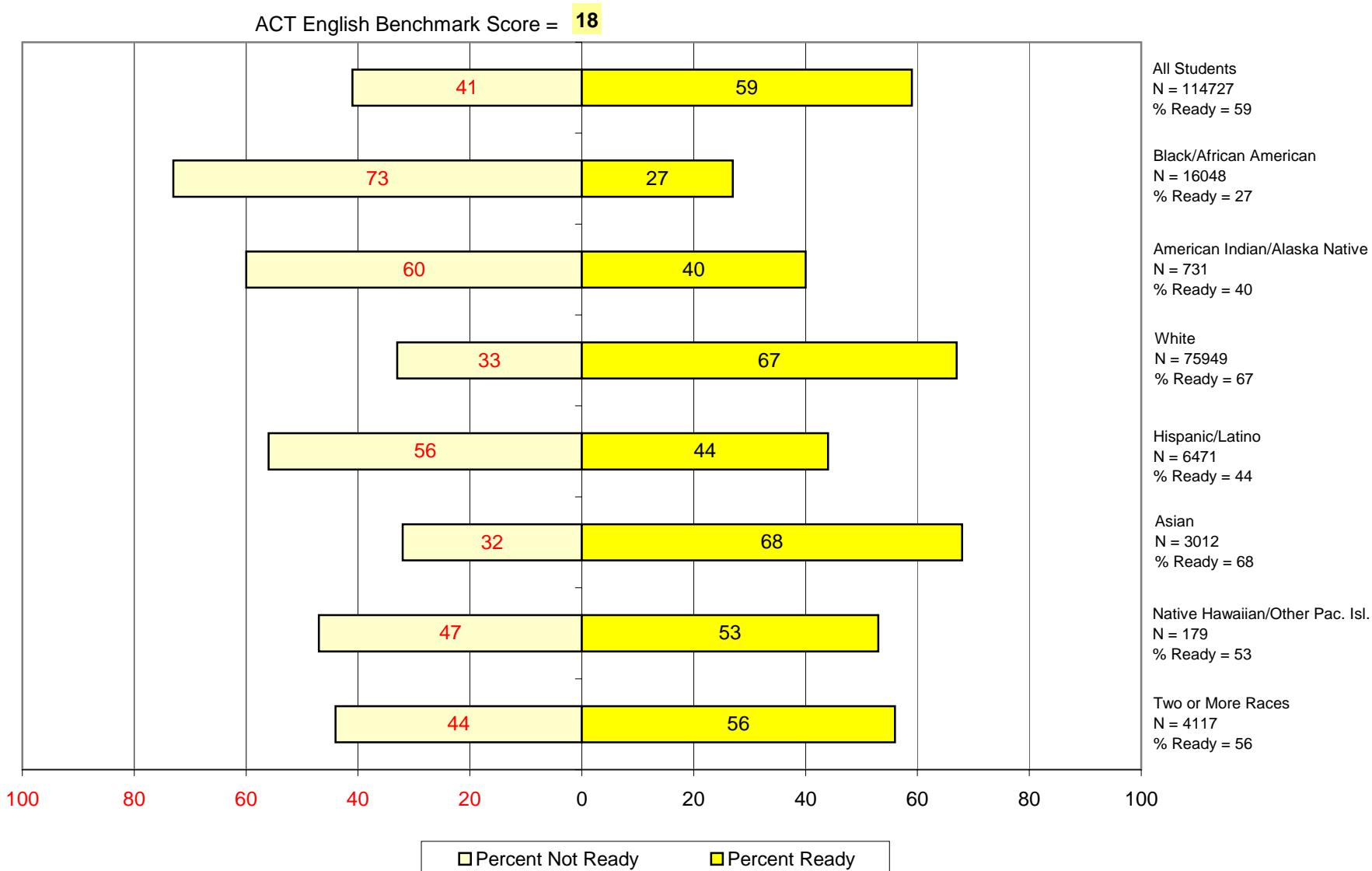
Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ENGLISH¹Refer to the section header on page 17 for a description of race/ethnicity changes.

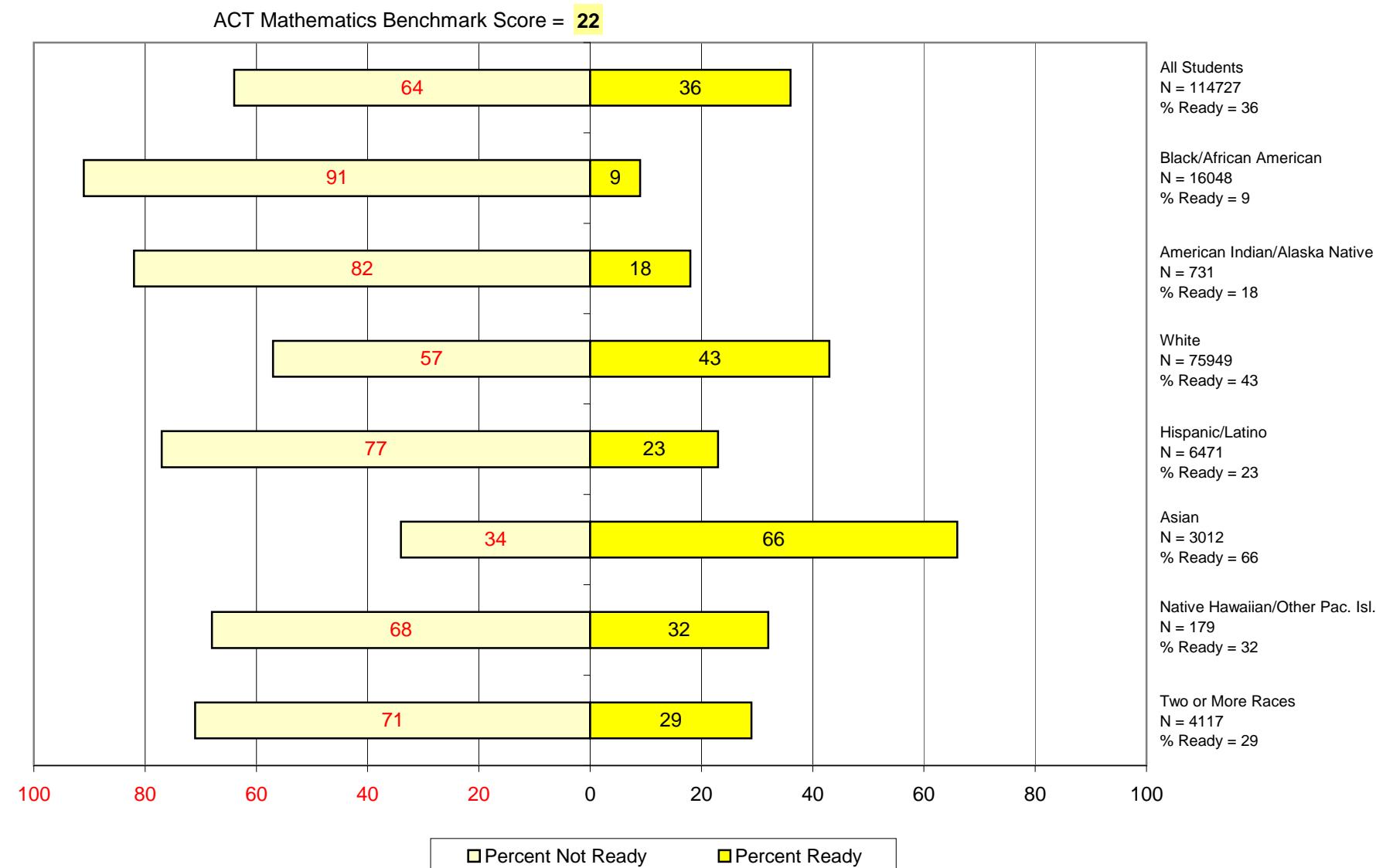
Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: MATHEMATICS¹Refer to the section header on page 17 for a description of race/ethnicity changes.

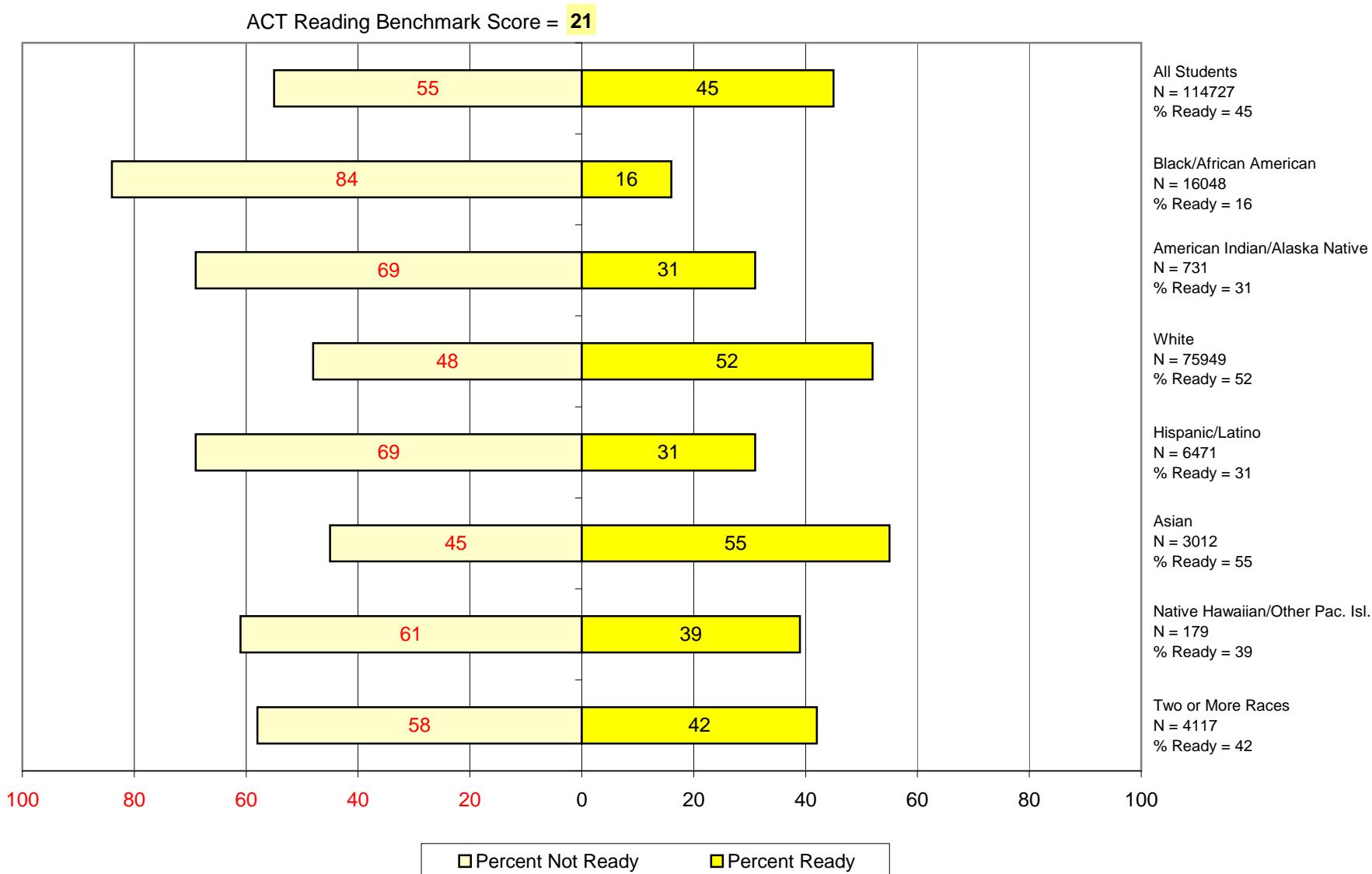
Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: READING¹Refer to the section header on page 17 for a description of race/ethnicity changes.

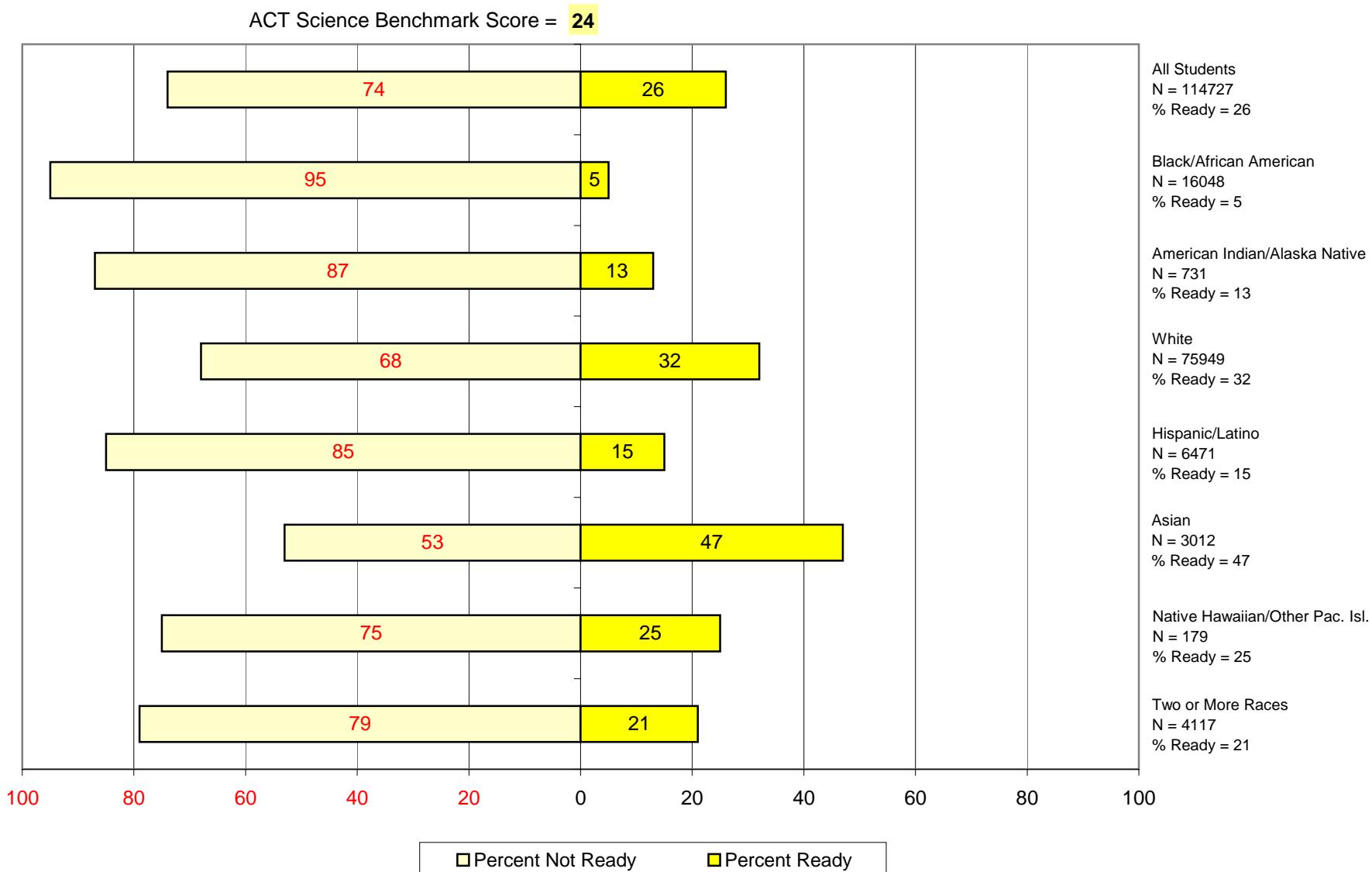
Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: SCIENCE¹Refer to the section header on page 17 for a description of race/ethnicity changes.

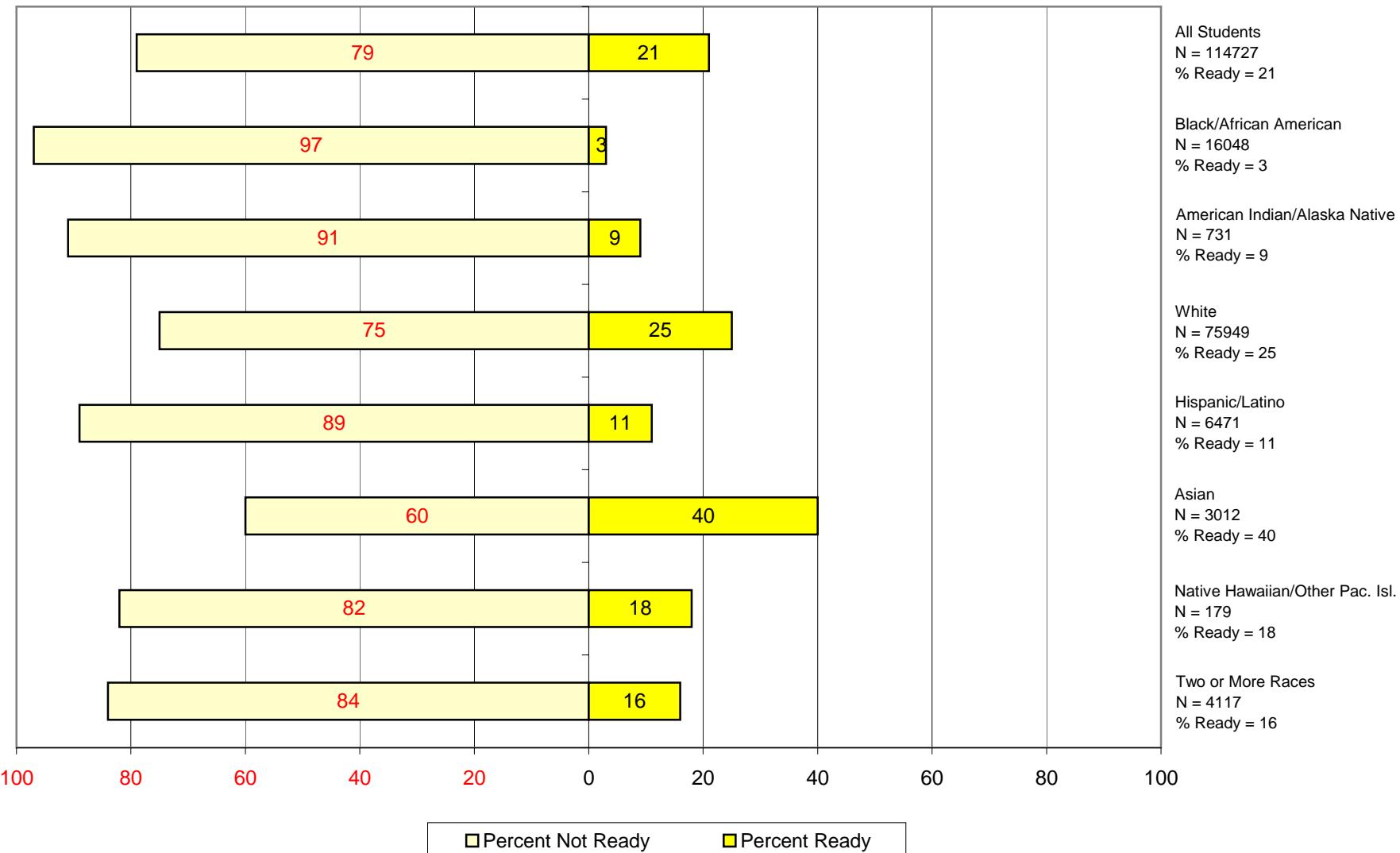
Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ALL FOUR¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	25,907	23	21.5	5.7	10,765	19	20.9	5.5	14,998	26	21.9	5.7
Eng 9, Eng 10, Eng 11, Eng 12	72,774	63	19.2	3.4	36,662	66	18.9	3.5	35,444	61	19.6	3.4
Less than 4 years of English	10,348	9	15.8	-	5,505	10	15.4	-	4,677	8	16.2	-
Zero years / no English courses reported	5,698	5	15.9	-	3,035	5	15.3	-	2,529	4	16.4	-
MATHEMATICS COURSE PATTERN	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹
Alg 1, Alg 2, Geom, Trig, & Calc	6,165	5	22.4	6.0	2,985	5	23.1	6.6	3,130	5	21.8	5.4
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	8,300	7	21.9	5.5	3,289	6	22.3	5.8	4,949	9	21.6	5.2
Alg 1, Alg 2, Geom, & Trig	8,207	7	19.3	2.9	3,977	7	19.7	3.2	4,136	7	19.0	2.6
Alg 1, Alg 2, Geom, & Other Adv Math	19,213	17	19.5	3.1	8,253	15	19.9	3.4	10,783	19	19.3	2.9
Other comb of 4 or more years of Math	34,271	30	22.7	6.3	17,523	31	23.4	6.9	16,570	29	22.0	5.6
Alg 1, Alg 2, & Geom	20,889	18	17.1	0.7	10,693	19	17.3	0.8	9,932	17	16.9	0.5
Other comb of 3 or 3.5 years of Math	7,788	7	18.3	1.9	4,006	7	18.6	2.1	3,709	6	17.9	1.5
Less than 3 years of Math	3,964	3	16.4	-	2,086	4	16.5	-	1,805	3	16.4	-
Zero years / no Math courses reported	5,930	5	17.8	-	3,155	6	17.9	-	2,634	5	17.6	-
SOCIAL SCIENCE COURSE PATTERN	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹
US Hist, World Hist, Am Gov, & Other Hist	757	1	21.3	4.8	456	1	21.4	5.0	295	1	21.3	4.6
Other comb of 4 or more years Social Science	65,089	57	20.9	4.4	29,277	52	20.7	4.3	35,330	61	21.2	4.5
US Hist, World Hist, & Am Gov	2,491	2	18.0	1.5	1,452	3	17.7	1.3	1,006	2	18.5	1.8
Other comb of 3 or 3.5 years of Social Science	34,108	30	19.4	2.9	17,955	32	19.3	2.9	15,788	27	19.6	2.9
Less than 3 years of Social Science	6,203	5	16.5	-	3,570	6	16.4	-	2,549	4	16.7	-
Zero years / no Social Science courses reported	6,079	5	17.2	-	3,257	6	16.8	-	2,680	5	17.7	-
NATURAL SCIENCE COURSE PATTERN	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹
Gen Sci ² , Bio, Chem, & Phys	46,443	40	21.1	2.6	23,806	43	21.6	3.4	22,298	39	20.7	1.8
Bio, Chem, Phys	10,848	9	22.5	4.0	5,659	10	23.1	4.9	5,111	9	21.9	3.0
Gen Sci ² , Bio, Chem	36,563	32	19.9	1.4	15,647	28	19.8	1.6	20,561	36	19.9	1.0
Other comb of 3 years of Natural Science	6,489	6	19.2	0.7	3,561	6	19.6	1.4	2,829	5	18.8	-0.1
Less than 3 years of Natural Science	8,112	7	18.5	-	3,954	7	18.2	-	4,065	7	18.9	-
Zero years / no Natural Science courses reported	6,272	5	17.9	-	3,340	6	17.9	-	2,784	5	17.8	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took

less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	N	State			National			
		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	25,907	23	21.5	72	380,162	23	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	72,774	63	19.2	59	1,178,400	71	20.5	67
Less than 4 years of English	10,348	9	15.8	36	64,748	4	16.5	41
Zero years / no English courses reported	5,698	5	15.9	37	42,707	3	16.5	40
MATHEMATICS COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	6,165	5	22.4	56	108,668	7	24.0	69
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	8,300	7	21.9	55	151,050	9	22.0	58
Alg 1, Alg 2, Geom, & Trig	8,207	7	19.3	30	115,739	7	19.6	34
Alg 1, Alg 2, Geom, & Other Adv Math	19,213	17	19.5	32	279,658	17	19.9	36
Other comb of 4 or more years of Math	34,271	30	22.7	58	585,086	35	23.6	66
Alg 1, Alg 2, & Geom	20,889	18	17.1	10	228,058	14	17.3	12
Other comb of 3 or 3.5 years of Math	7,788	7	18.3	21	82,509	5	19.9	35
Less than 3 years of Math	3,964	3	16.4	9	69,741	4	16.6	8
Zero years / no Math courses reported	5,930	5	17.8	19	45,508	3	18.2	22
SOCIAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	757	1	21.3	52	47,179	3	22.3	59
Other comb of 4 or more years Social Science	65,089	57	20.9	51	887,744	53	21.9	56
US Hist, World Hist, & Am Gov	2,491	2	18.0	31	84,563	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	34,108	30	19.4	40	452,172	27	21.2	51
Less than 3 years of Social Science	6,203	5	16.5	22	149,266	9	19.7	40
Zero years / no Social Science courses reported	6,079	5	17.2	27	45,093	3	17.8	29
NATURAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	46,443	40	21.1	33	740,499	44	21.9	39
Bio, Chem, Phys	10,848	9	22.5	42	171,734	10	23.0	47
Gen Sci ¹ , Bio, Chem	36,563	32	19.9	20	466,992	28	20.0	22
Other comb of 3 years of Natural Science	6,489	6	19.2	16	45,992	3	19.5	20
Less than 3 years of Natural Science	8,112	7	18.5	15	194,661	12	18.4	13
Zero years / no Natural Science courses reported	6,272	5	17.9	13	46,139	3	17.9	14

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories.

Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans

Planned Educational Major ¹	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ²	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp
Agriculture & Natural Resources Conservation	1,615	1	18.7	343	3	16.6	1,155	1	19.6
Architecture	1,332	1	20.1	125	1	15.8	1,135	1	20.6
Area, Ethnic, & Multidisciplinary Studies	149	0	20.9	17	0	15.5	120	0	22.1
Arts: Visual & Performing	10,049	9	19.5	1,374	13	16.5	8,027	9	20.1
Business	9,218	8	20.1	962	9	16.2	7,892	9	20.7
Communications	2,337	2	20.6	142	1	16.6	2,096	2	21.0
Community, Family, & Personal Services	6,138	5	17.8	1,309	12	16.4	4,450	5	18.4
Computer Science & Mathematics	2,752	2	21.6	254	2	17.6	2,375	3	22.1
Education	5,978	5	20.6	258	2	15.9	5,534	6	20.9
Engineering	6,740	6	22.2	503	5	15.9	5,969	7	22.9
Engineering Technology & Drafting	2,176	2	19.0	472	4	16.1	1,591	2	20.0
English & Foreign Languages	1,449	1	23.4	78	1	18.9	1,304	1	23.8
Health Administration & Assisting	2,501	2	17.5	273	3	15.8	2,109	2	17.8
Health Sciences & Technologies	23,699	21	20.7	1,174	11	16.4	21,775	24	21.0
Philosophy, Religion, & Theology	517	0	21.8	35	0	18.6	436	0	22.2
Repair, Production, & Construction	2,634	2	17.4	1,141	11	16.7	1,265	1	18.1
Sciences: Biological & Physical	5,099	4	23.2	111	1	17.8	4,835	5	23.4
Social Sciences & Law	9,452	8	21.0	345	3	16.1	8,755	10	21.3
Undecided	8,369	7	20.9	747	7	16.3	6,674	7	21.7
No Response	11,960	10	16.9	674	6	14.3	1,314	1	16.2

¹Refer to the section header on page 25 for a description of educational major changes.²2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.³Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Table 4.2. Average ACT Composite Scores for Racial/Ethnic¹ Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	2,526	15.9	392	13.4	30	14.5	1,587	16.7	172	14.6
2-yr College Degree	7,981	16.3	1,171	13.7	72	15.1	5,167	17.1	606	15.5
Bachelors Degree	49,304	19.6	6,609	15.7	291	17.8	34,304	20.6	2,693	18.1
Graduate Study	15,083	22.8	1,684	17.6	63	20.9	10,719	23.8	653	20.4
Prof. Level Degree	24,755	22.4	3,723	17.8	131	19.9	15,435	23.4	1,307	20.7
Other	2,983	17.0	346	14.6	31	15.8	1,904	17.5	206	15.8
No Response	12,095	17.7	2,123	14.4	113	16.1	6,833	18.9	834	16.2

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	2,526	15.9	51	16.5	6	15.8	71	15.9	217	15.4
2-yr College Degree	7,981	16.3	73	15.9	13	14.8	287	16.4	592	16.0
Bachelors Degree	49,304	19.6	795	20.3	80	19.3	1,629	19.1	2,903	18.8
Graduate Study	15,083	22.8	519	24.7	26	21.3	473	21.9	946	22.1
Prof. Level Degree	24,755	22.4	1,210	26.0	32	22.7	1,034	21.4	1,883	22.2
Other	2,983	17.0	62	16.9	4	17.8	117	16.9	313	17.5
No Response	12,095	17.7	302	20.3	18	16.2	506	17.6	1,366	17.3

¹Refer to the section header on page 25 for a description of race/ethnicity changes.

Table 4.3. Students' Score Report Preferences at Time of Testing

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
MICHIGAN STATE UNIVERSITY	Michigan	29,529	11,269	18,260	3	10	21	29	23	12	1
CENTRAL MICHIGAN UNIVERSITY	Michigan	21,109	5,873	15,236	2	11	31	33	17	5	0
UNIVERSITY OF MICHIGAN-ANN ARBOR	Michigan	18,649	7,001	11,648	2	8	17	23	26	21	4
GRAND VALLEY STATE UNIVERSITY	Michigan	16,912	4,270	12,642	2	9	25	32	23	9	1
WESTERN MICHIGAN UNIVERSITY	Michigan	15,608	3,358	12,250	3	13	30	32	17	5	0
FERRIS STATE UNIVERSITY	Michigan	11,669	3,249	8,420	3	16	35	28	14	4	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	10,939	10,939	0	10	25	31	18	9	5	2
WAYNE STATE UNIVERSITY	Michigan	10,299	2,649	7,650	7	21	30	23	13	5	0
EASTERN MICHIGAN UNIVERSITY	Michigan	10,268	2,516	7,752	6	20	32	26	12	4	0
OAKLAND UNIVERSITY	Michigan	8,820	2,190	6,630	3	14	30	28	17	6	0
SAGINAW VALLEY STATE UNIVERSITY	Michigan	6,947	1,743	5,204	3	16	35	28	13	4	0
NORTHERN MICHIGAN UNIVERSITY	Michigan	4,539	1,359	3,180	2	12	30	33	18	6	0
GRAND RAPIDS COMMUNITY COLLEGE	Michigan	4,474	1,615	2,859	5	20	36	26	10	3	0
MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	3,921	1,107	2,814	3	12	21	25	22	15	2
UNIVERSITY OF MICHIGAN-DEARBORN	Michigan	3,907	868	3,039	4	15	25	29	18	8	0
UNIVERSITY OF MICHIGAN-FLINT	Michigan	3,265	771	2,494	3	14	29	28	18	7	1
OAKLAND COMMUNITY COLLEGE	Michigan	2,846	844	2,002	7	26	37	22	7	2	0
NCAA ELIGIBILITY CENTER	Indiana	2,839	1,172	1,667	4	13	27	30	17	8	1
MACOMB COMMUNITY COLLEGE	Michigan	2,451	912	1,539	8	27	37	20	6	1	0
LANSING COMMUNITY COLLEGE	Michigan	2,375	837	1,538	6	21	37	25	8	2	0
LAKE SUPERIOR STATE UNIVERSITY	Michigan	2,210	593	1,617	2	13	33	30	17	5	0
HENRY FORD COMMUNITY COLLEGE	Michigan	2,173	677	1,496	12	34	35	15	4	1	0
KALAMAZOO VALLEY COMMUNITY COLLEGE	Michigan	2,068	733	1,335	7	24	36	23	8	2	0
DELTA COLLEGE	Michigan	2,013	902	1,111	5	21	37	25	9	2	0
HOPE COLLEGE	Michigan	1,994	533	1,461	1	5	15	27	29	19	3
UNIVERSITY OF DETROIT MERCY	Michigan	1,959	428	1,531	6	21	28	24	14	6	0
SCHOOLCRAFT COLLEGE	Michigan	1,866	628	1,238	6	23	36	24	9	2	0
DAVENPORT UNIVERSITY	Michigan	1,741	382	1,359	5	18	34	28	11	4	0
STATE-NO COLLEGE PLANS	Iowa	1,723	1,722	1	23	38	26	11	2	1	0
OHIO STATE UNIVERSITY THE	Ohio	1,530	288	1,242	8	23	24	22	13	10	1
All Other Institutions		109,335	28,302	81,033	6	18	27	23	15	10	2
Total		319,978	99,730	220,248	5	16	28	26	16	8	1

Section V

Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity¹ and Gender for students who took ACT Writing

	N		English		Average ACT Scores		English/Writing Combined	
	State	National	State	National	State	National	State	National
All Students	99,573	931,148	19.0	21.5	6.7	7.1	18.6	20.7
Black/African American	13,967	113,247	14.3	16.6	5.9	6.2	14.4	16.4
American Indian/Alaska Native	680	5,233	16.0	17.8	6.1	6.5	15.9	17.5
White	65,167	518,974	20.2	23.2	6.9	7.2	19.6	22.1
Hispanic/Latino	5,815	150,249	16.8	18.5	6.4	6.8	16.7	18.3
Asian	2,621	53,381	22.3	23.7	7.2	7.6	21.5	22.8
Native Hawaiian/Other Pac. Isl.	163	2,851	18.3	19.9	6.6	7.1	17.9	19.6
Two or more races	3,660	32,346	18.6	21.9	6.6	7.1	18.2	21.1
Prefer not/No Response	7,500	54,867	18.2	21.8	6.5	7.1	17.8	21.0
Males	49,087	413,617	18.5	21.2	6.4	6.8	17.9	20.3
Females	49,375	515,745	19.5	21.7	7.0	7.2	19.2	21.1
Missing	1,111	1,786	16.9	16.8	6.3	6.3	16.6	16.6

¹Refer to the section header on page 29 for a description of race/ethnicity changes.

